****** CONFIDENTIAL ******
******PRE-DECISIONAL DOCUMENT ******
****** SUMMARY SCORESHEET ******
****** FOR COMPUTING PROJECTED HRS SCORE ******

****** Do Not Cite or Quote ******

Site Name: Standard Products/West Kellogg

Region: Region 7

Scenario Name: Groundwater Plume

City, County, State: Wichita/Sedgwick, Kansas

Evaluator: Randolph Brown, L.G.

EPA ID#: KSN000706571

Date: 06/02/2014

Lat/Long: 37:40:24,-97:26:2

Congressional District: 4

This Scoresheet is for: SI

Scenario Name: Groundwater Plume

Description: The site is a residential and commercial area of Wichita containing multiple domestic wells impacted by PCE from two former drycleaning facilities.

	S pathway	S^2 pathway
Ground Water Migration Pathway Score (S_{gw})	100.0	10000.0
Surface Water Migration Pathway Score (S_{sw})	0.0	0.0
Soil Exposure Pathway Score (S_s)	0.0	0.0
Air Migration Score (S_a)	0.0	0.0
$S^2_{gw} + S^2_{sw} + S^2_s + S^2_a$		10000.0
$(S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		2500.0
$/ (S^2_{gw} + S^2_{sw} + S^2_s + S^2_a)/4$		50.0

Pathways not assigned a score (explain):

1.0

ES

TABLE 3-1 --GROUND WATER MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Aquifer Evaluated: Alluvial Aquifer			
Likelihood of Release to an Aquifer:			
1. Observed Release	550	550.0	
2. Potential to Release:			
2a. Containment	10	0.0	
2b. Net Precipitation	10	0.0	
2c. Depth to Aquifer	5	1.0	
2d. Travel Time	35	1.0	
2e. Potential to Release [lines 2a(2b + 2c + 2d)]	500	0.0	
3. Likelihood of Release (higher of lines 1 and 2e)	550		550.0
Waste Characteristics:			
4. Toxicity/Mobility	(a)	100.0	
5. Hazardous Waste Quantity	(a)	1000000.0	
6. Waste Characteristics	100		100.0
Targets:			
7. Nearest Well	(b)	45.0	
8. Population:			
8a. Level I Concentrations	(b)	930.0	
8b. Level II Concentrations	(b)	40.0	
8c. Potential Contamination	(b)	573.6	
8d. Population (lines 8a + 8b + 8c)	(b)	1543.6	
9. Resources	5	5.0	
10. Wellhead Protection Area	20	0.0	
11. Targets (lines 7 + 8d + 9 + 10)	(b)		1593.6
Ground Water Migration Score for an Aquifer:			
12. Aquifer Score [(lines 3 x 6 x 11)/82,5000][c]	100		100.0
Ground Water Migration Pathway Score:			
13. Pathway Score (S_{gw}), (highest value from line 12 for all aquifers evaluated)[c]	100		100.0

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] Do not round to nearest integer

TABLE 5-1 --SOIL EXPOSURE PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned	
Likelihood of Exposure:			
1. Likelihood of Exposure	550		
Waste Characteristics:			
2. Toxicity	(a)	0.0	
3. Hazardous Waste Quantity	(a)		
4. Waste Characteristics	100		0.0
Targets:			
5. Resident Individual	50		
6. Resident Population:			
6a. Level I Concentrations	(b)	0	
6b. Level II Concentrations	(b)		
6c. Population (lines 6a + 6b)	(b)		
7. Workers	15	0.0	
8. Resources	5		
9. Terrestrial Sensitive Environments	(c)		
10. Targets (lines 5 + 6c + 7 + 8 + 9)	(b)		0.0
Resident Population Threat Score			
11. Resident Population Threat Score (lines 1 x 4 x 10)	(b)		0.0
Nearby Population Threat			
Likelihood of Exposure:			
12. Attractiveness/Accessibility	100	0.0	
13. Area of Contamination	100	5.0	
14. Likelihood of Exposure	500		0.0
Waste Characteristics:			
15. Toxicity	(a)	0.0	
16. Hazardous Waste Quantity	(a)	0.0	
17. Waste Characteristics	100		0.0
Targets:			
18. Nearby Individual	1	0.0	
19. Population Within 1 Mile	(b)		
20. Targets (lines 18 + 19)	(b)		
Nearby Population Threat Score			
21. Nearby Population Threat (lines 14 x 17 x 20)	(b)		0.0
Soil Exposure Pathway Score:			
22. Pathway Score[d] (S_s), [lines (11+21)/82,500, subject to max of 100]	100		0.0

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on terrestrial sensitive environments is limited to a maximum of 60
[d] Do not round to nearest integer

TABLE 6-1 --AIR MIGRATION PATHWAY SCORESHEET

Factor categories and factors	Maximum Value	Value Assigned
Likelihood of Release:		
1. Observed Release	550	
2. Potential to Release:		
2a. Gas Potential to Release	500	
2b. Particulate Potential to Release	500	
2c. Potential to Release (higher of lines 2a and 2b)	500	
3. Likelihood of Release (higher of lines 1 and 2c)	550	
Waste Characteristics:		
4. Toxicity/Mobility	(a)	
5. Hazardous Waste Quantity	(a)	
6. Waste Characteristics	100	
Targets:		
7. Nearest Individual	50	
8. Population:		
8a. Level I Concentrations	(b)	
8b. Level II Concentrations	(b)	
8c. Potential Contamination	(c)	
8d. Population (lines 8a + 8b + 8c)	(b)	
9. Resources	5	
10. Sensitive Environments:		
10a. Actual Contamination	(c)	
10b. Potential Contamination	(c)	
10c. Sensitive Environments (lines 10a + 10b)	(c)	
11. Targets (lines 7 + 8d + 9 + 10c)	(b)	
Air Migration Pathway Score:		
12. Pathway Score (S_a) [(lines 3 x 6 x 11)/82,500][d]	100	

[a] Maximum value applies to waste characteristics category
[b] Maximum value not applicable
[c] No specific maximum value applies to factor. However, pathway score based solely on sensitive environments is limited to a maximum of 60.
[d] Do not round to nearest integer

REMEDIAL SITE ASSESSMENT DECISION - EPA REGION 7

SITE NAME: Standard Products/West Kellogg KDHE ID #: C2-087-72515 EPA ID#: KSN000706571

Alias/Alternate Site Names:

City: Wichita County: Sedgwick State: Kansas

Refer to Report Dated: May 2014 Report type: Site Inspection (SI)

Report developed by: Kansas Department of Health and Environment/Bureau of Environmental Remediation (KDHE/BER)

Project Manager: Jon Vopata, KDHE/BER

DECISION: The SI has identified 37 domestic wells with tetrachloroethylene (PCE) above Maximum Contaminant Levels (MCLs). The site has been referred to KDHE's Drycleaner Facility Release Trust Fund (DFRTF) for further response actions. Alternate water supplies are being evaluated and implemented through the DFRTF.

DISCUSSION/RATIONALE: The Standard Products property is located at 7920 West Kellogg in Wichita, Sedgwick County, Kansas. Three Standard Product properties were investigated by KDHE through Unified Focused Assessments (UFAs) evaluating potential radium-226 contamination at former radium dial shop facilities. Soil samples collected during the UFA at the West Kellogg property, approved by KDHE in January, 2010, indicated no elevated levels of heavy metals above residential RSK levels or radium-226 above the screening level of 5 picoCuries per gram plus background in soils or the screening level of 5 picoCuries per liter for groundwater samples. PCE was detected in all three groundwater samples at concentrations ranging between 1.8 and 8.1 µg/L. The UFA portion of the State Response Grant was eliminated in 2010-2011. After review of completed UFAs through the KDHE Site Assessment Program in 2013, KDHE conducted a Site Evaluation (SE) of the Standard Products/West Kellogg site. During the SE, an additional seven direct-push groundwater samples were collected in the assumed upgradient direction from the Standard Products/West Kellogg property investigated during the UFA. PCE was detected at a maximum concentration of 7.4 µg/L, above its MCL, in SE-5 approximately 1,500 feet upgradient of the UFA SP-2 sample location. This sample location is within a residential area with no apparent source area for PCE nearby. A PA was recommended upon completion of the SE. During the Preliminary Assessment, a door-to-door search was conducted upon identifying an area in January 2014 that had apparently not been historically connected to the City of Wichita Public Water Supply. Six domestic wells were sampled in February, 2014. Three of these wells, Anderson, Stover, and Nibarger, indicated PCE above the MCL. Three of these wells, the Monroe, Emprise Bank Trust, and Brown wells, did not indicate PCE above the MCL. The maximum detection was 554 µg/L in the Anderson well.

During this SI, additional domestic wells were identified and sampled. Two former drycleaners upgradient of the impacted domestic wells were evaluated as potential source areas. The former drycleaners at 8947 West Central and the drycleaner at 9334 West Central both appear to be source areas for PCE contamination in groundwater at this site since elevated PCE was detected downgradient of both of these facilities but not detected upgradient. A total of 37 domestic wells were identified to be impacted with PCE above MCLs, and an additional 16 domestic wells indicated PCE below the MCL.

Since multiple domestic wells have been identified as impacted above the MCL for PCE, and two former drycleaners have been identified as the likely source areas for the PCE and PCE degradation compound contamination, the site has been referred to KDHE's DFRTF for further investigation and evaluation of alternate drinking water supplies. Since the site has been accepted into KDHE's DFRTF, no further site assessment consistent with the National Oil and Hazardous Substances Pollution Contingency Plan is recommended (NFRAP).

Report Reviewed and
Approved by: Randolph L. Brown, P.G., KDHE/BER Signature: _____ Date: 06/06/2014

Site Decision Concurrence
Made by: Paul Roemerman, Kansas SAM, EPA Signature: _____ Date: _____